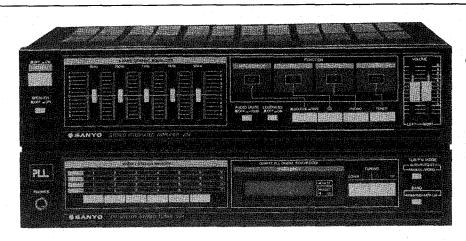
## **SERVICE MANUAL**

# **RECEIVER**



(EUROPE/WEST GERMANY/ITALY)



**AK32** 

#### **SPECIFICATIONS**

#### Note:

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

#### AMPLIFIER

Input sensitivity and impedance . . . . . . . . . CD: 150 mV/47 kohms Frequency response . . . . . . . . . . . . . . . . . 20 Hz – 35 kHz (CD)

Graphic equalizer . . . . . . . . . . . . . . . . . . ±10 dB (63/250/1000/4000/16000 Hz)

Loudness control response (Vol. -30dB).... +8 dB/+4dB (100 Hz/10 kHz)

Signal to noise ratio . . . . . . . . . . . . . . . . . 95 dB (CD)

#### **TUNER**

FM section

Usable sensitivity. . . . . . . . . . . . . . . . 2.0 µV (mono) Signal to noise ratio (1 mV ANT.) . . . . . . . 65 dB (mono) Harmonic distortion (1 kHz) . . . . . . . . . . 0.5% (mono)

Stereo separation (1 kHz) . . . . . . . . . . . . 40 dB

AM (MW/LW) section

LW: 144 - 290 kHz (1 kHz steps) 

**GENERAL** 

Power requirements . . . . . . . . . . . . . . . . AC: 220V, 50 Hz

Power consumption . . . . . . . . . . . . . . . . . 190 W

Dimensions (W x D x H) . . . . . . . . . . . . Approx. 335 x 290 x 150 mm

 $(13-1/8" \times 11-3/8" \times 6")$ 

Weight..... Approx. 5 kg (11 lbs.)

Specifications subject to change without notice.

GENERAL ADJUSTMENT CONDITION
1. Power source voltage is DC12V.
2. Use a screw driver with plastic grip for all adjustment.

FM Band Ξ

Set BAND switch in the FM position.

Signal input must be kept as low as possible to avoid overload.
 Use an output meter of the highest possible sensiwity.

\* FM-SG: Standard modulation frequency, 1,000Hz; frequency deviation, ±75kHz dev.

	0	FREQUENCY		INPUT CONDITION		OUTPUT CONDITION	NOITION	ADJUST-	
CIRCUIT	5 L	INDICATED	MEASURING INSTRUMENT	FREQUENCY	CONNECT. POINT	MEASURING INSTRUMENT	CONNECT.	POINT	ADJUSTING PROCEDURE
l L	V-curve	Lower limit	FM sweep Generator	10.7MHz (nonmodulation)	TP2 (H) TP1 (E)	FM sweep Generator	TP3 (H)	T201	<ul> <li>Match to the frequency of ceramic filter.</li> <li>Adjust so that the symmetrical wave from becomes the maximum.</li> </ul>
Ĺ	S-curve	Lower limit	FM sweep Generator	10.7MHz (nonmodulation)	ТР2 (H) ТР1 (E)	FM sweep Generator	тр5 ( <del>)</del> тр1 ( <u>(</u> )	(H) T202	<ul> <li>Match to the frequency of ceramic filter.</li> <li>Adjust so that the symmetrical wave from becomes the maximum.</li> </ul>
Covering	нівн	108.0MHz (High end)			1	Digital voltmeter	TP401 (H)	J L105	<ul> <li>Adjust so that the digital voltmeter indication becomes 8.0 ± 0.5V.</li> </ul>
frequency	МОЛ	87.5MHz (Low end)				Digital voltmeter	TP401 (H) TP1 (E)	<b>e</b>	<ul> <li>Confirm so that the digital voltmeter indication becomes approx. 1.5~1.6V.</li> </ul>
Tracking	רסא	90.0MHz	FM-SG	90.0MHz (20dB)	FM antenna terminal (750.)	VTVM Oscilloscope	Output plug	L102 L103	<ul> <li>Adjust so that the output wave form becomes the maximum.</li> </ul>
frequency	нівн	106.0MHz	FM-SG	106.0MHz (20dB)	FM antenna terminal (75Ω)	VTVM Oscilloscope	Output plug	CT101	<ul> <li>Adjust so that the output wave form becomes the maximum.</li> </ul>
I. F. (distortion factor)		98.0MHz	FM-SG	98.0MHz 66dB	FM antenna terminal (75Ω)	Digital voltmeter	тР201 (H) ТР202 (E)	J) T202	<ul> <li>Tune exactly, and adjust so that the digital voltmeter indication becomes 0 ± 0.02V.</li> </ul>
S. D. (Station Detector)	tector)	98.0MHz	FM-SG	98.0MHz 23dB	FM antenna terminal (75Ω)	Digital voltmeter	TP203 (H)	3) SVR202	<ul> <li>Tune exactly, and adjust so that the digital voltmeter indication becomes less than 2V.</li> </ul>
VCO (19kHz)	(2	98.0MHz	FM-SG	98.0MHz 66dB (nonmodulation)	FM antenna terminal (75Ω)	VTVM Oscilloscope Counter	тР301 ( <del>()</del> ТР1 (E)	3) SVR302	<ul> <li>Turn SVR-302 to the position where the STEREO indicator lights up, and stop it there.</li> <li>Turne exactly at non-moduration, and adjust so that the counter value becomes 19.00 ± 0.05kHz.</li> </ul>
Separation (Stereo mode)	Je)	98.0MHz	FM-SG STEREO MODULATOR	98.0MHz 66dB	FM antenna terminal (75Ω)	VTVM Oscilloscope	Output plug	SVR301	<ul> <li>Adjust so that the leakage currents of the right and left channels are minimized in good balance.</li> </ul>

Main signal  $-\pm67.5$  kHz dev. Pilot signal  $-\pm6.75$  kHz dev. STEREO MODULATOR: Frequency deviation

Since TP202 is not a ground voltage, it should not be short-circuited to the case of the meter.

Note:

MW Band

(2)

Set BAND switch in the MW position.

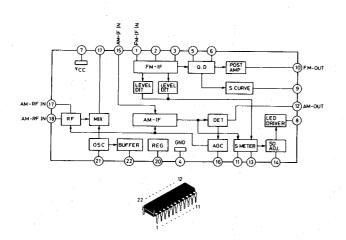
			INPUT CONDITION	7	OUTPUT CONDITION	NOITION	ADJUST.	
CIRCUIT	POSITION	MEASURING	FREQUENCY	CONNECT. POINT	MEASURING INSTRUMENT	CONNECT. POINT	POINT	ADJUSTING PROCEDURE
ш.	Lower limit	AM sweep Generator	459kHz nonmodulation	AM loop-ant. Terminal (H) Shield case (E)	AM sweep Generator	HP7 (H)	T251	<ul> <li>Match to the frequency of ceramic filter.</li> <li>Adjust so that the symmetrical wave form form becomes the maximum.</li> </ul>
Covering	LOW (Low end)				Digital voltmeter	ТР401 (H) ТР1 (E)	L153	<ul> <li>Adjust so that the digital voltmeter indication becomes 1.2 ± 0.03V.</li> </ul>
	1611kHz HIGH (High end)				Digital voltmeter	TP401 (H) TP1 (E)	CT153	<ul> <li>Adjust so that the digital voltmeter indication becomes 8 ± 0.05V.</li> </ul>
L( Tracking	LOW 603kHz	AM-SG	603kHz 75dB	IRE loop antenna	VTVM Oscilloscope	Output plug	L151	<ul> <li>Adjust so that the output value becomes the maximum.</li> </ul>
<u> </u>	HIGH 1404kHz	AM-SG	1404kHz 75dB	IRE loop antenna	VTVM Oscilloscope	Output plug	CT151	<ul> <li>Adjust so that the output value becomes the maximum.</li> </ul>
S. D. (Station Detector)	999kHz or)	AM-SG	1000kHz 83dB	IRE loop antenna	Digital voltmeter	TP203 (H)	SVR201	<ul> <li>Tune exactly, and adjust so that the digital voltmeter indication becomes less than 2V.</li> </ul>

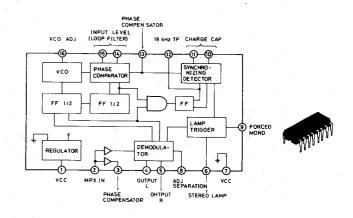
(3) LW BandSet BAND switch in the LW position.

	Ş	FREQUENCY	₽NI	INPUT CONDITION		OUTPUT CONDITION	VOITION		
CIRCUIT	9 ≧ ⊢	INDICATED	MEASURING INSTRUMENT	FREQUENCY	CONNECT. POINT	MEASURING INSTRUMENT	CONNECT	POINT	ADJUSTING PROCEDURE
	LOW	Lower limit	AM-SG	144kHz	AM loop	Digital	TP401 ℍ	7 1 7 7	Adjust so that the digital voltmeter
Covering					8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AOIIIMETEL	TP1 (E)	÷	indication Decomes 1.0 ± 0.05 V.
frequency	нын	Upper limit	AM-SG	290kHz	AM loop	Digital	TP401 ⊕		Adjust so that the digital voltmeter
					antenna	Voltmeter	TP1 (E)	54	indication becomes 0.5 ± 0.1V.
Tracking	LOW	162kHz	AM-SG	162kHz	AM loop antenna	VTVM Oscilloscope	Output plug	L152	<ul> <li>Adjust so that the output value becomes the maximum.</li> </ul>
frequency	нідн	279kHz	AM-SG	279kHz	AM loop antenna	VTVM Oscilloscope	Output plug	CT152	Adjust so that the output value becomes

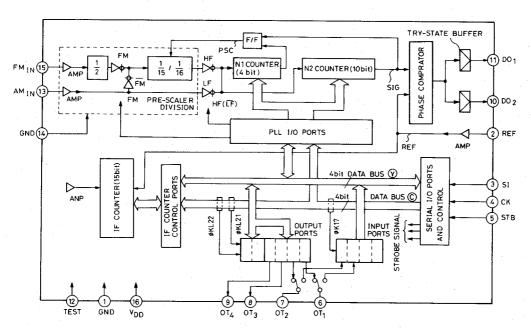
#### IC201 LA1265 (TUNER SYSTEM)

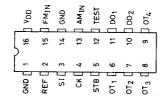
## IC301 LA3361 (FM PLL-MPX STEREO DEMODULATOR





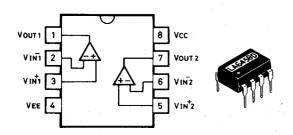
## IC401 TC9172P (HIGH-SPEED PLL WITH PRE-SCALER)



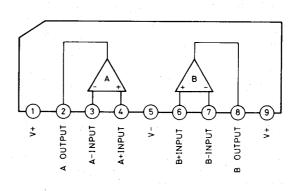




### IC701 LA6458DS

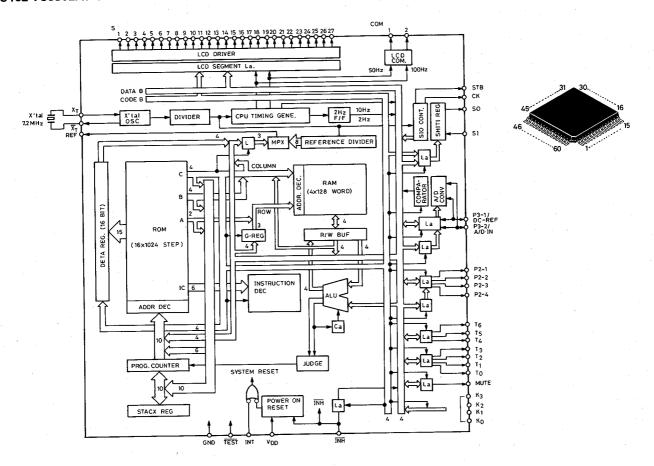


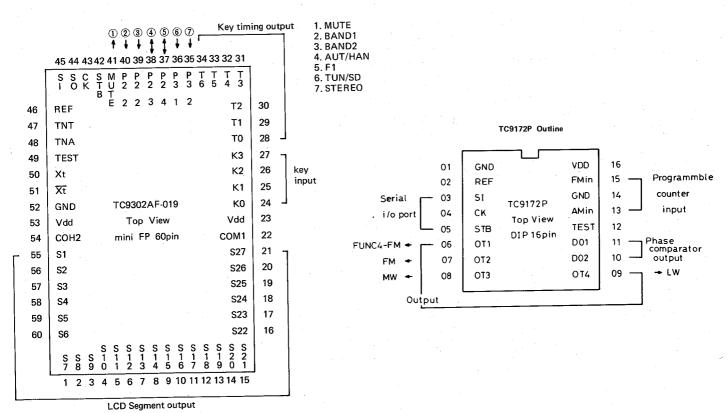
#### IC721 LA6458S





#### IC402 TC9302AF-019





#### SYSTEM SUMMARY (TC 9302AF-019)

Combined with PLL LSI TC 9172P, high efficiency digital tuning system with FM/MW/LW 3-band can be made.

#### **BAND**

BAND	CODE A B	FREQUENCY (Hz)	STEP (Hz)	Fref (Hz)	IF (Hz)
3/4	0 0	87.9 ~ 107.9 M	200K		+10.7M
FM	1 0	87.50 ~ 108.00 M	50K	25K	+10.710
FIVI	0 1	76.0 ~ 90.0 M	100K	25K	-10.7M
	1 1	87.40 ~ 108.10 M	50K		+10.7M
	0 0	530 ∼ 1600 K	10K	10K	+450K
MW	1 0	531 ∼ 1602 K			
IVIV	0 1	522 ~ 1611 K	9K	9K	+459K
	1 1	522 ~ 1629 K			
	0 0	LW NO BAND			
LW	1 0	153 ~ 281 K	AUTO MAN 9K/1K	1K	+459K
	0 1	144 ~ 290 K	J. JIX/TK		

## I/O PORT TC9302AF-019

PORT	NO.	NAME	FUNCTION	ACTIVE	FIRST SETTING
MUTE	41	MUTE	MUTE OUTPUT	Н	Н
P2-1	40	BAND 1	*1	Н	
P2-2	39	BAND 2	BAND INPUT	Н	_
P2-3	38	AUTO/MANUAL	AT/MA INPUT/OUTPUT		
		LOCK KEY	INPUT	Н	- <u>-</u>
		CYCLIC KEY	OUTPUT	Н	L
P2-4	37	FM MUT	F1 INPUT/OUTPUT		
		LOCK KEY	INPUT	• Н	<u> </u>
		CYCLIC KEY	OUTPUT	Н	L
P3-1	36	TUNED & SD	TUNED & SD INPUT	L	
P3-2	.35	STEREO	STEREO INPUT	L	_

* 1	BAND 2	BAND 1	BAND
	L	H, .	FM
	Н	L	MW
	H	H	LW

#### TC9172P

PORT	NO.	NAME	FUNCTION	ACTIVE	FIRST SETTING
OT 1	06	FM	FM BAND OUTPUT	Н	Н
OT 2	07	AM (MW, LW)	LW, MW OUTPUT	Н	L
OT 3	08	MW	MW BAND OUTPUT	Н	L
OT 4	09	LW	LW BAND OUTPUT	Н	L

## Function of terminals

Pin No.	Symbol	Name	Function			
22 54	COM1	LCD common output	These are output terminals for commun signal to LCD. It is possible to display maximum 54 segment at matrix of S1 $-$ S27. Three levels of VDD, 1/2VDD and GND at 5ms intervals is output with 50Hz cycle from these terminals.			
55 ~ 60	S <sub>1</sub> ~ S <sub>6</sub>	LCD segment output	These are output terminals of segment signal.  It is possible to display maximum 54 segment of matrix of CCM1 and CCM2.			
1 ~ 21	S <sub>7</sub> ~ S <sub>2 7</sub>		<u> Particular de la companya de la c</u>			
24 ~ 27	K <sub>0</sub> ~ K <sub>3</sub>	Key input port	These are 4-bit input port for key matrix input. All these terminals have pull down resistor themselves. Usually, $T_0 \sim T_7$ output ports are used for key return timing signal output.			
28 ~ 34	T <sub>0</sub> ~ T <sub>6</sub>	Key timing output port	These are output ports for 4-bit ( $T_0 \sim T_3$ ) and 3-bit ( $T_4 \sim T_6$ ).  Usually, these are used for key return timing signal output of key matrix.			
35 36	P3-2 /A/D.IN P3-1 /DC. REF	I/O port 3 A-D /analogue voltage input /standard voltage input	These are I/O ports of 2-bit.  The port can designate output and input at every 1 bit and the designation can be made depend on contents of inner port called PORT-3 I/O CONTROL.  Also, these terminals are used for analogue input of built-in 4-bit A/D converter.  Change control to A/D converter input is made depend on contents of PORT-3 I/O CONTROL port. Built-in A/D converter is controlled by program of random comparation system, P3-1 is for standard voltage input and P3-2 is for analogue comparate input.			
37 ~ 40	P2-4 P2-1	I/O port-2	These terminals are 4-bit I/O ports.  The port can designate the output and input at every 1 bit and designation can be made depend on contents of inner port called PORT-2 I/O CONTROL.			
41	MUTE	Muting signal output port	This terminal is for 1 bit output port and usually used for muting control signal output.  Note: When INH input is changing "H" to "L" or "L" to "H" alternately, output will automatically be set to "H" level.			
42	STB	Strobing pulse	These terminals are for serial interface. It can control an external PLL LSI or optional IC by SIO command.			
43	ск	Serial clock output	These terminals are for serial interface. It can control an external PLL LSI or optional IC by SIO command. Serial transmission mode of NCD/NCD can be selected by the program.			
44	so	Serial data output				
45	SI	Serial data input				
46	REF	Reference Frequency Signal output	This is output terminal for standard frequency signal to PLL LSI. Eight kind of 1kHz, 5kHz, 9kHz, 10kHz, 12.5kHz, 25kHz, 50kHz and 100kHz standard frequency signal can be selected by the program.  Note: When $\overline{\text{INH}}$ is in "L" level, output is automatically fixed to "L" level.			
47	INT	Initialize input	<ul> <li>This is input terminal for system reset signal of device.</li> <li>When INT is in "L" level, device will be reset.</li> <li>When INT are "H" level, program starts from "0".</li> <li>This terminal is used in "H" level setting because usually, when 0V → 4.5V voltage is applied to V<sub>DD</sub>, device will be reset (power on reset).</li> <li>Note: After system reset, I/O port is set to input mode but output port is instable, therefore, initialize the program depend on condition if needed.</li> </ul>			

Pin No.	Symbol	Name	Function
48	INH	Inhibit input	This is input port for signal selection of radio mode. It judges "radio on" by "H" level input and "radio off" by "L" level input. When this terminal is in "L" level, reference output is automatically fixed to "L" level.
49	TEST	Test mode control input	This is input terminal for test mode control.  It becomes test mode at "H" level and normal mode at "L" level or NC condition.  This terminal has pull down resistor itself and usually it is set to NC or "L" level.
50 51	X <sub>T</sub>	X'tal OSC terminal	This is connection terminal for X'tal. Connect 7.2MHz X'tal to this terminal.
52	GND	GND terminal	This is ground terminal of device.
23 53	VaaV	Power supply terminal	These are terminals for $V_{DD}$ . Usually applies $5V \pm 10\%$ to this terminals. Voltage can be reduced to $2V$ for back up condition. Also, when $0V \rightarrow 4.5V$ is applied to these terminals, device will be in system reset and program start from "0".  Note: Make power on reset at the "L" level (= $\overline{INH}$ ) condition.

#### PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  $\triangle$  in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with  $\triangle$ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

#### NOTE:

\* Materials of Capacitors are abbreviated as follows;

AL ELECT ..... Aluminum Electrolytic
BC CON .... Semiconductor Ceramic
CHIP BC .... Chip Semiconductor Ceramic
CHIP TAN .... Chip Tantal

ELECT .... Electrolytic PP CON .... Polypropylene

* Tolerance of	of Capacitors	are noted	with	following	symboles;
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J±5%	P+100-0%
K±10%	Q+30-10%
M±20%	Z+80-20%
N±30%	

#### **PACKING & ACCESSORIES**

Ref. No.	Part No.	Description
	141-6-133T-86101	INNER CORR CASE (EUROPE)
	141-6-133T-86104	INNER CORR CASE (ITALY)
	141-6-133T-86105	INNER CORR CASE (W.GERMANY
1	141-6-144T-89000	FOAM PLASTIC CASE, LEFT
	141-6-144T-89100	FOAM PLASTIC CASE, RIGHT
*	141-6-235T-50601	INNER POLYE
		LAMINA COVER 500X600
	141-6-235T-50605	INNER POLE
		LAMINA COVER 500X600
	141-6-409T-39600	INST MANUAL (EUROPE)
	141-6-409T-39602	INST MANUAL (ITALY)
	141-6-409T-39603	INST MANUAL (W.GERMANY)
	141-6-415T-43800	NOTICE, ZZF (W.GERMANY)
	141-6-231T-20300	INNER POLYE COVER
	4-245T-00700	ANTENNA, FM

Ref. No.	Part No.	Description
23	141-2-329T-10600	REFLECTOR, LCD
24	141-2-247T-63900	SHEET, LCD
25	141-2-247T-66400	SHEET, LCD
26	141-2-310T-47000	BRACKET, HEAT SINK
27	141-2-290T-02300	BRACKET, PHONO PCB MTG
28	141-2-448T-36900	CUSHION 35X20X2
29	123-2-472R-00401	LUG (W. GERMANY)
Y1	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
Y2	141-2-421T-24700	SPECIAL SCREW
Y3	BJX6S++3+8+Z1	PAN WASHER HD 2
	and the second second	TAPPING SCREW 3X8
Y4	BJESS++4+8+Z1	BIND HD S TITE SCREW 4X8
Y5	BJESS++3+6+Z1	BIND HD S TITE SCREW 3X6
Y6	141-2-421T-43931	SPECIAL SCREW (W.GERMANY)
Y7	BJB2S++3+8+ZK	BIND HD 2 TAPPING SCREW 3X8
Y8	BJS2S2R6+8+Z1	FLAT HD 2 TAPPING SCREW 2.6X8
Į.		

#### **CABINET & CHASSIS**

Ref. No.	Part No.	Description
1	141-0-122T-66400	FRONT PANEL ASSY
		(W.GERMANY/EUROPE)
	141-0-122T-66403	FRONT PANEL ASSY (ITALY)
2	141-2-111T-55541	CABINET
3	141-2-164T-37700	SLIDE KNOB, VOLUME, LEFT
4	141-2-164T-37800	SLIDE KNOB, VOLUME, RIGHT
5	141-2-164T-36204	SLIDE KNOB, EQUALIZER
6	141-0-125T-33406	BOTTOM LID ASSY
	10 - 10 - 43, 4 - 10 - 1	(W.GERMANY/EUROPE)
	141-0-125T-33407	BOTTOM LID ASSY (ITALY)
7	141-2-310T-75001	BRACKET, HEAD SINK, FRONT
8	141-2-310T-75101	BRACKET, HEAD SINK, REAR
9	141-2-160T-38900	PUSH BUTTON, POWER SWITCH
10	141-2-160T-09701	PUSH BUTTON, SPEAKER
11	141-2-160T-09701	PUSH BUTTON, LOUD/MUTE
12	141-2-160T-57401	PUSH BUTTON, FUNCTION
13	141-2-160T-59901	PUSH BUTTON, BAND
14	141-2-160T-81900	PUSH BUTTON, TUNING
15	141-2-464T-14400	FIXER
16	141-2-119T-05800	BACK PANEL (EUROPE)
	141-2-119T-05803	BACK PANEL (ITALY)
	141-2-119T-05805	BACK PANEL (W.GERMANY)
17	141-2-210T-71200	BRACKET, CONNECTOR, LARGE
18	141-2-210T-71300	BRACKET, CONNECTOR, SMALL
19	141-2-310T-77100	BRACKET, FUNCTION PCB
20	141-2-310T-97401	BRACKET, IC MTG
21	141-2-210T-70801	BRACKET, ANTEENA
22	141-2-210T-78800	BRACKET, LCD

#### **ELECTRICAL PARTS**

Ref. No.	Part No.	Description
67	△ 4-320T-21900	POWER TRANSFORMER
		(W.GERMANY/EUROPE)
	△ 4-320T-22700	POWER TRANSFORMER (ITALY)
68	⚠ 4-243T-84973	AC POWER CORD
69	△ 4-234T-11084	FUSE 250V 1.0A SEMUKO (F999)
70		FUSE 250V 2.5A
		SEMUKO (F751/F851)
71	4-237T-09990	TERMINAL BOARD SPEAKER
		(EUROPE)
	4-237T-09993	TERMINAL BOARD SPEAKER
		(W.GERMANY)
72	141-2-368T-30701	HEAT SINK
73	4-290T-16600	P.C BOARD, PT. PRIMARY
74	4-290T-16700	P.C BOARD, INSULATOR
75	4-269T-00101	LOOP ANT ASSY
		(W.GERMANY/EUROPE)
	4-269T-00104	LOOP ANT ASSY (ITALY)
76	141-2-322T-87201	SHIELD PLATE
	4-267T-17173	SOCKET, 3P
	4-267T-17175	SOCKET, 5P
	4-267T-17177	SOCKET, 7P
	4-267T-17178	SOCKET, 8P
	4-240T-83572	SOCKET, 2P
	4-240T-83573	SOCKET, 3P
	4-240T-83574	SOCKET, 4P
	4-240T-83577	SOCKET, 7P
	4-240T-47673	SOCKET, 3P

#### **MAIN PCB ASSY**

#### Ref. Part No. Description No. 50 141-4-290T-15300 P.C BOARD ASSY, MAIN (EUROPE) P.C BOARD ASSY, MAIN (ITALY) 141-4-290T-15301 141-4-290T-15302 P.C BOARD ASSY, MAIN (W.GERMANY) 4-265T-07930 L751 VHF COIL 4-265T-07930 L851 VHF COIL 4-206T-05100 I.C STK4152MK2 IC751 **⚠** STD438+F+++++ Q921 TR 2SD438 F **⚠** STB560+F+++++ Q922 TR 2SB560 F D901 **⚠** SDGP15+LD++++ DIODE GP15 D L FORMING \_\_\_ SDGP15+LD++++ DIODE GP15 D L FORMING D902 D903 \_\_\_ SDGP1.5+LD++++ DIODE GP15 D L FORMING **∆** SDGP15+LD++++ DIODE GP15 D.L. FORMING D904 ZENER DIODE MTZ15.0B D921 SDMTZ150B+++T D922 SDMTZ150B+++T ZENER DIODE MTZ15.0B CE+50105MR++F ELECT 1MF 50V M R C751 CC+50181KRSLF C752 CERAMIC 180PF 50V K R SL C753 CE6R3107MR++F ELECT 100MF 6.3V M R CE+50476MR++F ELECT 47MF 50V M R C754 CM+50473MR++F MYLAR 0.047MF 50V M R C755 C756 401 024 6443 CERAMIC 100PF 50V K R SL (W.GERMANY) C851 CE+50105MR++F ELECT 1MF 50V M R C852 CC+50181KRSLE CERAMIC 180PF 50V K R SL CE6R3107MR++F C853 ELECT 100MF 6.3V M R CE+50476MR++F ELECT 47MF 50V M R C854 C855 CM+50473MR++F MYLAR 0.047MF 50V M R C856 CC+50101KRSLF CERAMIC 100PF 50V K R SL (W.GERMANY) C901 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF C902 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF CERAMIC 0.01MF 50V Z R ZF C903 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF C904 CC+50103ZRZFF C905 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF C906 C907 4-163T-12400 **ELECT 3300MF 50V** C908 4-163T-12400 **ELECT 3300MF 50V** CE+50107MY++S ELECT 100MF 50V M Y C911 C912 CE+50107MY++S ELECT 100MF 50V M Y C921 CE+16227MY++S ELECT 220MF 16V M Y CE+16227MY++S ELECT 220MF 16V M Y C922 C950 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF (W.GERMANY) 401 024 7044 R751 CARBON 1K JA 1/6W R752 401 024 7747 CARBON 100K JA 1/6W R753 401 027 5948 CARBON 68K JA 1/6W CARBON 560 JA 1/6W R754 401 027 2343 R755 401 022 4164 CARBON 68K JA 1/4W CARBON 2.2K JA 1/4W R756 401 016 3869 R757 401 008 7204 CARBON 2.2K JB 1/2W R758 401 006 9002 CARBON 10 JB 1/2W R759 A 401 010 5601 CARBON 5.6 JB 1/2W R851 401 024 7044 CARBON 1K JA 1/6W R852 401 024 7747 CARBON 100K JA 1/6W R853 401 027 5948 CARBON 68K JA 1/6W R854 401 027 2343 **CARBON 560 JA 1/6W** R855 401 022 4164 CARBON 68K JA 1/4W R856 401 016 3869 CARBON 2.2K JA 1/4W CARBON 2.2K JB 1/2W R857 401 008 7204 R858 401 006 9002 CARBON 10 JB 1/2W R859 A 401 010 5601 **CARBON 5.6 JB 1/2W** A 401 012 4206 CARBON 100 JB 1/4W R911 R912 401 012 4206 **CARBON 100 JB 1/4W** R913 401 019 1961 CARBON 3.9K JA 1/4W CARBON 1K JA 1/4W R914 401 012 5768 R921 401 061 2505 OXIDE-MT 330 JA 1W R922 A 401 061 2505 OXIDE-MT 330 JA 1W R923 A 401 018 3877 CARBON 3.3K JA 1/4W R924 401 018 3877 CARBON 3.3K JA 1/4W CARBON 10 JA 1/6W R941 401 024 6443 (W.GERMANY)

#### **FUNCTION SWITCH PCB ASSY**

0110110	N SWITCH FCB A	
Ref. No.	Part No.	Description
51	141-4-290T-15400	P.C BOARD ASSY,
	141-4-290T-15401	FUNCTION SWITCH (EUROPE) P.C BOARD ASSY,
	141-4-290T-15402	P.C BOARD ASSY,
77	4-267T-41471	FUNCTION SWITCH (W.GERMANY) SOCKET W/LEAD, DECK
	4-267T-25173	SOCKET, 3P
	4-236T-32375	PLUG, TUNER
S1~4	4-248T-28071	SWITCH, FUNCTION
S5,6	4-248T-28100	SWITCH, MUTE/LOUD
IC721 0730	SILA6458S++++ STC536+G+++UB	IC LA6458S SIP9 TR 2SC536 G AUD B SP
Q731	STC536+G+++UB	TR 2SC536 G AUD B SP
Q732	STC536+G+++UB	TR 2SC536 G AUD B SP
Q733	STC536+G+++UB	TR 2SC536 G AUD B SP
Q734	STC536+G+++UB	TR 2SC536 G AUD B SP
Q830 Q831	STC536+G+++UB STC536+G+++UB	TR 2SC536 G AUD B SP
Q832	STC536+G+++UB	TR 2SC536 G AUD B SP
Q833	STC536+G+++UB	TR 2SC536 G AUD B SP
Q834	STC536+G+++UB	TR 2SC536 G AUD B SP
C712	CC+50101KRSLF	CERAMIC 100PF 50V
0713	0015010180015	K R SL (W.GERMANY)
C713	CC+50101KRSLF	CERAMIC 100PF 50V K R SL (W.GERMANY)
C721	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C722	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C723	CE+16106MR++F	ELECT 10MF 16V M R
C724	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C725 C726	CB+25104KRXRF CC+50101KRSLF	BC CON 0.1MF 25V K R XR CERAMIC 100PF 50V
0720	OO TO TRICKSET	K R SL (W.GERMANY)
C730	CE+50225MR++F	ELECT 2.2MF 50V M R
C731	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C732	CE+50474MR++F	ELECT 0.47MF 50V M R
C733 C734	CB+25223KRXRF CF+50124JR++F	BC CON 0.022MF 25V K R XR METAL POLY 0.12MF 50V J R
C735	CB+25682KRXRF	BC CON 0.0068MF 25V K R XR
C736	CB+25333KRXRF	BC CON 0.033MF 25V K R XR
C737	CB+25152KRXRF	BC CON 0.0015MF 25V K R XR
C738	CB+25822KRXRF	BC CON 0.0082MF 25V K R XR
C739 C812	CC+50331KRSLF CC+50101KRSLF	CERAMIC 330PF 50V K R SL CERAMIC 100PF 50V
0012	CC+30101KK3EI	K R SL (W.GERMANY)
C813	CC+50101KRSLF	CERAMIC 100PF 50V
C821	CC+50331KRSLF	K R SL (W.GERMANY) CERAMIC 330PF 50V K R SL
C822	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C823	CE+16106MR++F	ELECT 10MF 16V M R
C824	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C825 C826	CB+25104KRXRF CC+50101KRSLF	BC CON 0.1MF 25V K R XR CERAMIC 100PF 50V
0020	OO TO TO TRIKSET	K R SL (W.GERMANY)
C830	CE+50225MR++F	ELECT 2.2MF 50V M R
C831	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C832	CE+50474MR++F	ELECT 0.47MF 50V M R
C833 C834	CB+25223KRXRF CF+50124JR++F	BC CON 0.022MF 25V K R XR
C835	CB+25682KRXRF	METAL POLY 0.12MF 50V J R BC CON 0.0068MF 25V K R XR
C836	CB+25333KRXRF	BC CON 0.033MF 25V K R XR
C837	CB+25152KRXRF	BC CON 0.0015MF 25V K R XR
C838	CB+25822KRXRF	BC CON 0.0082MF 25V K R XR
C839	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C923 C924	CE+16476MR++F CE+16476MR++F	ELECT 47MF 16V M R ELECT 47MF 16V M R
C924.	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C946	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
C947	CC+50103ZRZFF	CERAMIC 0.01MF 50V
C948	CC+50103ZRZFF	Z R ZF (W.GERMANY) CERAMIC 0.01MF 50V
	55.55155ERE/	Z R ZF (W.GERMANY)

Ref. No.	Part No.	Description
R712	401 012 5768	CARBON 1K JA 1/4W
R713	401 012 5768	(W.GERMANY) CARBON 1K JA 1/4W
		(W.GERMANY)
R721 R722	401 025 7845 401 027 0349	CARBON 2.2K JA 1/6W CARBON 47K JA 1/6W
R723	401 025 7845	CARBON 2.2K JA 1/6W
R724	401 025 7845	CARBON 2.2K JA 1/6W
R725 R726	401 027 0349 401 027 2640	CARBON 47K JA 1/6W CARBON 5.6K JA 1/6W
R727	401 026 4645	CARBON 33K JA 1/6W
R728	401 024 8041	CARBON 1M JA 1/6W
R729 R730	401 027 2640 401 027 2343	CARBON 5.6K JA 1/6W CARBON 560 JA 1/6W
R731	401 027 5948	CARBON 68K JA 1/6W
R732	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R733 R734	401 026 6649 401 027 2343	CARBON 560 JA 1/6W
R735	401 027 5948	CARBON 68K JA 1/6W
R736 R737	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R738	401 020 0049	CARBON 560 JA 1/6W
R739	401 027 5948	CARBON 68K JA 1/6W
R740 R741	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R741	401 020 0049	CARBON 560 JA 1/6W
R743	401 027 5948	CARBON 68K JA 1/6W
R744 R745	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R746	401 027 2343	CARBON 560 JA 1/6W
R747	401 027 5948	CARBON 68K JA 1/6W
R748 R749	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R812	401 012 5768	CARBON 1K JA 1/4W
D013	401 010 5760	(W.GERMANY)
R813	401 012 5768	CARBON 1K JA 1/4W (W.GERMANY)
R821	401 025 7845	CARBON 2.2K JA 1/6W
R822 R823	401 027 0349 401 025 7845	CARBON 47K JA 1/6W CARBON 2.2K JA 1/6W
R824	401 025 7845 401 025 7845	CARBON 2.2K JA 1/6W
R825	401 027 0349	CARBON 47K JA 1/6W
R826 R827	401 027 2640 401 026 4645	CARBON 5.6K JA 1/6W CARBON 33K JA 1/6W
R828	401 024 8041	CARBON 1M JA 1/6W
R829	401 027 2640	CARBON 5.6K JA 1/6W
R830 R831	401 027 2343 401 027 5948	CARBON 560 JA 1/6W CARBON 68K JA 1/6W
R832	401 027 2640	CARBON 5.6K JA 1/6W
R833	401 026 6649	CARBON 390 JA 1/6W
R834 R835	401 027 2343 401 027 5948	CARBON 560 JA 1/6W CARBON 68K JA 1/6W
R836	401 027 2640	CARBON 5.6K JA 1/6W
R837	401 026 6649	CARBON 390 JA 1/6W CARBON 560 JA 1/6W
R838 R839	401 027 2343 401 027 5948	CARBON 68K JA 1/6W
R840	401 027 2640	CARBON 5.6K JA 1/6W
R841 R842	401 026 6649 401 027 2343	CARBON 390 JA 1/6W CARBON 560 JA 1/6W
R843	401 027 2343	CARBON 68K JA 1/6W
R844	401 027 2640	CARBON 5.6K JA 1/6W
R845 R846	401 026 6649 401 027 2343	CARBON 390 JA 1/6W CARBON 560 JA 1/6W
R847	401 027 2343	CARBON 560 JA 1/6W
R848	401 027 2640	CARBON 5.6K JA 1/6W
R849 R932	401 026 6649 401 022 1955	CARBON 390 JA 1/6W CARBON 680 JA 1/4W
R933	401 022 1933	CARBON 1.2K JA 1/4W
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## LED PCB ASSY

Ref. No.	Part No.	Description
52	141-4-290T-15500 141-4-290T-15501 141-4-290T-15502	P.C BOARD ASSY, LED (EUROPE) P.C BOARD ASSY, LED (ITALY) P.C BOARD ASSY, LED (W.GERMANY)
D915 D936 D937 D938	SLSLP238FB5PG SLSLP238FB5PG SLSLP238FB5PG SLSLP138CB5RE	LED SLP238F-51P B GR, TUNER LED SLP238F-51P B GR, PHONO LED SLP238F-51P B GR, CD LED SLP138C-51 B RE, TAPE

## VOLUME PCB ASSY

Ref. No.	Part No.	Description
53	141-4-290T-15600	P.C BOARD ASSY,
		VOLUME (EUROPE)
	141-4-290T-15601	P.C BOARD ASSY,
		VOLUME (ITALY)
	141-4-290T-15602	P.C BOARD ASSY,
		VOLUME (W.GERMANY)
	4-267T-25177	SOCKET, 7P
VR721	4-220T-17171	VARIABLE RESISITOR,
		100KB, VOLUME
VR821	4-220T-17171	VARIABLE RESISITOR,
		100KB, VOLUME

## SPEAKER TERMINAL PCB ASSY

Ref. No.	Part No.	Description
54	141-4-290T-15700	P.C BOARD ASSY,
		SPKR TERMINAL (EUROPE)
	141-4-290T-15701	P.C BOARD ASSY,
		SPKR TERMINAL (ITALY)
	141-4-290T-15702	P.C BOARD ASSY,
	·	SPKR TERMINAL (W.GERMANY)
C762	CM+50562MR++F	1
		M R (W.GERMANY)
C763	CM+50562MR++F	MYLAR 0.0056MF 50V
		M R (W.GERMANY)
C862	CM+50562MR++F	
	014/50560145	M R (W.GERMANY)
C863	CM+50562MR++F	MYLAR 0.0056MF 50V
D760	401 012 3467	M R (W.GERMANY)
R762	401 012 3467	CARBON 10 JA 1/4W
R862	401 012 3467	(W.GERMANY) CARBON 10 JA 1/4W
ROUZ	401 012 3407	(W.GERMANY)

## PHONO PCB ASSY

1 110110	OD AGOI	
Ref. No.	Part No.	Description
55	141-4-290T-15800	P.C BOARD ASSY,
:		PHONO (EUROPE)
	141-4-290T-15801	P.C BOARD ASSY,
		PHONO (ITALY)
	141-4-290T-15802	P.C BOARD ASSY,
		PHONO (W.GERMANY)
	4-240T-50300	SOCKET, CD
	4-240T-30372	SOCKET, PHONO
	4-267T-19800	SOCKET, CD SYN
	4-236T-17900	PLUG, 3P
	4-267T-25175	SOCKET, 5P
	4-267T-25177	SOCKET, 7P
IC701	S1LA6458DS+++	IC LA6458DS DIP08
C701	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C702	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C703	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C704	CE+10336MR++F	ELECT 33MF 10V M R
C705	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C706	CB+25183KRXRF	BC CON 0.018MF 25V K R XR

·	r	
Ref. No.	Part No.	Description
C707	CW+50105QVNPS	NONPOLAR 1MF 50V O V NP
C711	CC+50331KRSLF	CERAMIC 330PF 50V
	N 11 1	K R SL (W.GERMANY)
C801	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C802	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C803	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C804	CE+10336MR++F	ELECT 33MF 10V M R
C805	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C806	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C807	CW+50105QVNPS	NONPOLAR 1MF 50V Q V NP
C811	CC+50331KRSLF	CERAMIC 330PF 50V
		K R SL (W GERMANY)
C925	CE+16476MR++F	ELECT 47MF 16V M R
C926	CE+16476MR++F	ELECT 47MF 16V M R
C927	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C928	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C941	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
C942	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
C943	CC+50103ZRZFF	CERAMIC 0.01MF 50V
0044	001501007075	Z R ZF (W.GERMANY)
C944	CC+50103ZRZFF	CERAMIC 0.01MF 50V
C945	COLEGIALKBOLE	Z R ZF (W.GERMANY)
C945	CC+50101KRSLF	CERAMIC 100PF 50V K R SL (W.GERMANY)
R701°	401 024 7044	CARBON 1K JA 1/6W
R701	401 027 0349	CARBON 1K JA 1/6W
R702	401 027 0349	CARBON 330 JA 1/6W
R704	401 025 1942	CARBON 15K JA 1/6W
R705	401 026 1644	CARBON 270K JA 1/6W
R706	401 027 2343	CARBON 560 JA 1/6W
R707	401 024 7747	CARBON 100K JA 1/6W
R711	401 024 7044	CARBON 1K JA 1/6W
117.22	401 024 7044	(W.GERMANY)
R801	401 024 7044	CARBON 1K JA 1/6W
R802	401 027 0349	CARBON 47K JA 1/6W
R803	401 026 3945	CARBON 330 JA 1/6W
R804	401 025 1942	CARBON 15K JA 1/6W
R805	401 026 1644	CARBON 270K JA 1/6W
R806	401 027 2343	CARBON 560 JA 1/6W
R807	401 024 7747	CARBON 100K JA 1/6W
R811	401 024 7044	CARBON 1K JA 1/6W
		(W.GERMANY)
R934	401 024 7450	CARBON 10K JA 1/6W
	1.3	
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#### **POWER SWITCH PCB ASSY**

OWER SWITCH I OF ASSI			
Ref. No.	Part No.	Description	
56	141-4-290T-15900	P.C BOARD ASSY,	
		POWER SWITCH (EUROPE)	
	141-4-290T-15901	P.C BOARD ASSY,	
		POWER SWITCH (ITALY)	
	141-4-290T-15902	P.C BOARD ASSY,	
	tare the latest factors	POWER SWITCH (W.GERMANY)	
	141-2-382T-18900	TERMINAL	
	141-2-381T-04202	BRACKET, FUSE	
S8	⚠ 4-238T-70380	SWITCH, POWER	
C999	⚠ 4-223T-12100	CAPACITOR 0.01MF 400V	
or	⚠ 4-223T-12280	CAPACITOR 0.01MF SEMKO	

## SPEAKER SWITCH PCB ASSY

Ref. No.	Part No.	Description	
57	141-4-290T-16000 141-4-290T-16001	P.C BOARD ASSY, SPKR SWITCH (EUROPE) P.C BOARD ASSY, SPKR SWITCH (ITALY)	

Ref. No.	Part No.	Description
57	141-4-290T-16002	P.C BOARD ASSY,
•		SPKR SWITCH (W.GERMANY)
	141-2-381T-04202	BRACKET, FUSE
S7	4-238T-82200	SWITCH, SPEAKER
R761	401 009 5506	CARBON 330 JB 1/2W
R861	401 009 5506	CARBON 330 JB 1/2W
		A SAN

## **HEADPHONE SOCKET PCB ASSY**

Ref. No.	Part No.	Description
58	141-4-290T-16100	P.C BOARD ASSY,
		HEAD PHONE SOCKET (EUROPE)
	141-4-290T-16101	P.C BAORD ASSY,
	The second second second	HEAD PHONE SOCKET (ITALY)
	141-4-290T-16102	P.C BOARD ASSY,
		HEAD PHONE SOCKET
	-	(W.GERMANY)
	4-240T-63071	SOCKET, HEADPHONE
C761	CC+50221KRSLF	CERAMIC 220PF 50V
		K R SL (W.GERMANY)
C861	CC+50221KRSLF	CERAMIC 220PF 50V
		K R SL (W.GERMANY)
	1.	

## **GRAPHIC EQUALIZER PCB ASSY**

Ref. No.		
59	141-4-290T-16200	P.C BOARD ASSY, G. EO.(EUROPE)
	141-4-290T-16201	P.C BOARD ASSY, G. EQ.(ITALY)
	141-4-290T-16202	P.C BOARD ASSY,
		G. EQ.(W.GERMANY)
VR731,831	4-220T-42000	VARIABLE RESISTOR,
	Section 1995	250KW, 16KHZ
VR732,832	4-220T-42000	VARIABLE RESISTOR, 250KW, 4KHZ
VR733,833	4-220T-42000	VARIABLE RESISTOR, 250KW, 1KHZ
VR734,834	4-220T-42000	VARIABLE RESISTOR,
	e for a firm of the contract of	250KW, 250HZ
VR735,835	4-220T-42000	VARIABLE RESISTOR, 250KW, 63HZ
R941	401 024 6443	CARBON 10 JA 1/6W
		(W.GERMANY)
R942	401 024 6443	CARBON 10 JA 1/6W (EUROPE)
	and the second second	

## P.T. SECONDARY PCB ASSY

Ref. No.	Part No.	Description	
60	141-4-290T-16300	P.C BOARD ASSY,	.7
	A Commence of the Commence of	P.T. SECONDARY (EUROPE)	
	141-4-290T-16301	P.C BOARD ASSY,	
•		P.T. SECONDARY (ITALY)	
	141-4-290T-16302	P.C BOARD ASSY,	1725
		P.T. SECONDARY (W.GERMANY)	
D931	⚠ SDDSF10+C+++T	DIODE DSF10 C T	
D932	⚠ SDDSF10+C+++T	DIODE DSF10 C T	
D933	⚠ SDDSF10+C+++T	DIODE DSF10 C T	
D934	↑	DIODE DSF10 C T	
C931	CF+50104JR++F	METAL POLY 0.1MF 50V J R	
C932	CE+35228MVHAS	ELECT 2200MF 35V M V HA S	
C949	CC+50103ZRZFF	CERAMIC 0.01MF 50V	
		Z R ZF (W.GERMANY)	
R931	401 057 4100	OXIDE-MT 0.33 JA 1W	
	The second secon		

## DC DECK PCB ASSY

Ref. No.	Part No.	Description
61	141-4-290T-16400	P.C BOARD ASSY, DC DECK (EUROPE)

Ref. No.	Part No.	Description
61	141-4-290T-16401	P.C BOARD ASSY,
		DC DECK (ITALY)
	141-4-290T-16402	P.C BOARD ASSY,
	•	DC DECK (W.GERMANY)
	4-267T-25173	SOCKET, 3P
IC931	⚠ SIAN7812F++++	IC AN7812F SIP3
C933	CE+50105MR++F	ELECT 1MF 50V M R
C934	CE+16106MR++F	ELECT 10MF 16V M R

## DC TUNER PCB ASSY

Ref. No.	Part No.	Description
62	141-4-290T-16500	P.C BOARD ASSY,
		DC TUNER (EUROPE)
	141-4-290T-16501	P.C BOARD ASSY,
	* * *	DC TUNER (ITALY)
	141-4-290T-16502	P.C BOARD ASSY,
	`	DC TUNER (W.GERMANY)
IC932	⚠ SIAN7812F++++	IC AN7812F SIP3
C935	CE+50105MR++F	ELECT 1MF 50V M R
C936	CE+16106MR++F	ELECT 10MF 16V M R
	Livery a	

## TUNER MAIN PCB ASS

Ref. No.	Part No.	Description
63	141-4-290T-07401	P.C BOARD ASSY,
	- · · · · · · · · · · · · · · · · · · ·	TUNER MAIN (EUROPE)
	141-4-290T-07404	P.C BOARD ASSY,
		TUNER MAIN (ITALY)
	141-4-290T-07405	P.C BOARD ASSY,
		TUNER MAIN (W.GERMANY)
1	4-970T-02571	LCD
	141-2-382T-22700	TERMINAL, EXT.ANT
	4-240T-83575	SOCKET, 5P, TO AMP
	4-267T-41100	SOCKET, 5P,TO AMP
	4-267T-17176	SOCKET, 6P, TO RESET
	4-267T-17177	SOCKET, 7P, TO BAND
[	141-2-322T-87100	SHIELD PLATE, CASE
	141-2-322T-42000	SHIELD PLATE, BACK
	4-267 <b>T-</b> 17172	SOCKET, 2P, TO LAMP
CV101	SCSVC211B+++1	VARACTOR DIODE SVC211B SP
CV102	SCSVC211B+++1	VARACTOR DIODE SVC211B SP
CV103	SCSVC211B+++1	VARACTOR DIODE SVC211B SP
CV151	SCKV1260B++++	VARACTOR DIODE KV1260B
CT101	4-224R-11600	TRIMMER
CT151	4-224T-15500	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15571	TRIMMER
CT152	4-224T-15400	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15471	TRIMMER
CT153	4-224T-15500	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15571	TRIMMER
CT154	4-224T-15400	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15471	TRIMMER
T201	4-256T-35040	I.F.T
T202	4-256T-39040	I.F.T
T251	4-256T-41740	I.F.T
L101	4-265T-02700	VHF COIL
L102	4-265T-58830	VHF COIL
L103	4-265T-65240	V.H.F COIL FILTER
L104	4-253T-15012 -4-265T-57244	VHF COIL
L105 L151	4-257T-76600	ANT COIL
L151 L152	4-257T-76700 4-257T-76700	ANT COIL
L152 L153	4-2571-76700 4-258T-44640	O.S.C COIL
L153	4-258T-58340	O.S.C COIL
L154 L201	4-253T-15044	FILTER
L401	4-253T-15044 4-253T-15020	FILTER
L401 L402	4-253T-15020	FILTER
CF201	4-256T-84500	I.F FILTER
J. 201	1 200. 04000	1

Ref.	Part No.	Description
No.	· · · · · · · · · · · · · · · · · · ·	
CF202	4-256T-84500	I.F FILTER
CF203	4-256T-84500	I.F FILTER
CF251	4-256T-89471	I.F FILTER
CF252	4-256T-90100	I.F FILTER
BPF101	4-253T-20040	FILTER
		f
LPF201	4-255T-06146	MX COIL
X401	4-225T-06200	CRYSTAL
SVR201	4-220T-19476	SEMI-FIXED RESISTOR,
		20KB (W.GERMANY/EUROPE)
or	4-222T-97576	SEMI-FIXED RESISTOR, 20KB
SVR202	4-220T-19476	SEMI-FIXED RESISTOR.
J111202	4 2201 13170	20KB (W.GERMANY/EUROPE)
	4 000T 07E7C	
or	4-222T-97576	SEMI-FIXED RESISTOR, 20KB
SVR301	4-220T-19472	SEMI-FIXED RESISTOR,
1		1KB (W.GERMANY/EUROPE)
or	4-222T-97572	SEMI-FIXED RESISTOR, 1KB
SVR302	4-220T-19475	SEMI-FIXED RESISTOR.
01110011		10KB (W.GERMANY/EUROPE)
	4 222T 07575	, .
or	4-222T-97575	SEMI-FIXED RESISTOR, 10KB
F301	4-252T-11300	CHOKE
F302	4-252T-11300	CHOKE
TP201	4-237T-09000	TERMINAL BOARD
TP202	4-237T-09000	TERMINAL BOARD
TP203	4-237T-09000	TERMINAL BOARD
TP301	4-237T-09000	TERMINAL BOARD
TP401	4-237T-09000	TERMINAL BOARD
IC201	S!LA1265S++++	IC LA1265S DIP22
IC301	SILA3361+++++	IC LA3361
IC401	SITC9172P++++	IC TC9172P DIP16
IC402	SITC9302AF019	IC TC9302AF-019 QIP60
Q101	SF2K212+++F++	FET 2SK212 F
Q102	STC2999E++++T	TR 2SC2999 E T
		TR 25C2999 E 1
Q103	STC930+D+++C1	t ·
Q104	STC2999E++++T	TR 2SC2999 E T
Q105	SF2K212+++F++	FET 2SK212 F
Q151	SF2K222+++E++	FET 2SK222 E
Q152	STD1012G++++T	TR 2SD1012 G T
Q153	STD1012G++++T	TR 2SD1012 G T
0154	STD1012G++++T	TR 2SD1012 G T
Q155	STD1012G++++T	TR 2SD1012 G T
Q155 Q156	STD1012G++++T	TR 2SD1012 G T
- 1		
Q157	STC536+G+++UB	TR 2SC536 G AUD B SP
Q201	STC930+E+++F1	TR 2SC930 E IF SP
Q202	STC536+G+++UB	TR 2SC536 G AUD B SP
Q203	STC536+G+++UB	TR 2SC536 G AUD B SP
0301	STC536+G+++UB	TR 2SC536 G AUD B SP
Q302	STC536+G+++UB	TR 2SC536 G AUD B SP
	STD1012G++++T	TR 2SD1012 G T
Q303		l .
Q304	STD1012G++++T	TR 2SD1012 G T
Q351	STC536+G+++UB	TR 2SC536 G AUD B SP
Q352	STA608+F++++B	TR 2SA608 F B SP
Q353	STA608+F++++B	TR 2SA608 F B SP
0354	STC536+G+++UB	TR 2SC536 G AUD B SP
Q355	STC536+G+++UB	TR 2SC536 G AUD B SP
Q355 Q356		TR 2SA608 F B SP
•	STA608+F++++B	
Q357	STC536+G+++UB	TR 2SC536 G AUD B SP
Q358	STA608+F++++B	TR 2SA608 F B SP
Q401	SF2K222+++E++	FET 2SK222 E
0402	STC1571F+++++	TR 2SC1571 F
0403	STC2999E++++T	TR 2SC2999 E T
D101	SDGMA 0 1 + + + + + T	DIODE GMA01
D102	SDGMA01++++T	DIODE GMA01
D301	SDDS442+X+++T	DIODE DS442 X
D302	SDDS442+X+++T	DIODE DS442 X
D351	SDGMA 0 1 + + + + + T	DIODE GMA01
D352	SDMTZ062C+++T	ZENER DIODE MTZ6.2C
D401	SDGMA 0 1+++++T	DIODE GMA01
D401 D402	SDGMA01+++++T	DIODE GMAO1
D402		The state of the s
D400	SDDS442+X+++T	DIODE DS442 X
D403		L DIMBE BOARD V
D404	SDDS442+X+++T	DIODE DS442 X
	SDDS442+X+++T SDDS442+X+++T	DIODE DS442 X
D404 D405		
D404	SDDS442+X+++T	DIODE DS442 X

No.   Part No.   Description   No.   Part No.   Description   No.   Part No.   Description   Description   No.   Part No.   Description   De				D-4		
DIODE   DIODE CAMADI   THATT   DIODE CAMADI   DIO	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
DIGNO   CO-90   TANKYEF   CSERAMIC   APOPE FOW R R YE	D409	SDGMA01+++++T	DIODE GMA01	C309	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
C100	I I	SDGMA01+++++T	DIODE GMA01	C310	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
C1030	D411		DIODE GMA01		1	
C1040   CC-59 10 10 ANS   CERAMIC 10 PE DO K A YB   C315						
C105   CC-501012AYBG   CERAMIC DOLPH SOV A VB   C315   CB-25222MXRF   BC CON 0.0022MF 25V K R R   C316   CB-25222MXRF   BC CON 0.0022MF 25V K R R   C317   CB-25222MXRF   BC CON 0.0022MF 25V K R R   C317   CB-2522MXRF   BC CON 0.002MF 25V K R R   C317   CB-2522MXRF   BC CON 0.002MF 25V K R R   C317   CB-2522MXRF   BC CON 0.002MF 25V K R R   C317   CB-2522MXRF   BC CON 0.002MF 25V K R R   C316   CB-2522MXRF   BC CON 0.002MF 25V K R R   C316   CB-2522MXRF   BC CON 0.002MF 25V K R R   C316   CB-2522MXRF   BC CON 0.002MF 25V K R R   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C316   CB-2522MXRF   BC CON 0.002MF 25V K R R   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C316   CB-2522MXRF   BC CON 0.002MF 25V K R R   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C316   CB-2522MXRF   BC CON 0.002MF 25V K R R   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C324   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C325   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C325   CB-25474MMHAF   ELECT 1MF 25V M R H A F   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   C326   CB-2522MXRF   BC CON 0.002MF 25V M R N   R   C326   CC	ł I		· ·			1
C105				<b>   </b>		·
C105				<b>   </b>		
C109 CC-\$5018KASLG CRRAMCLOPF BOV R A SL C321 CS-\$5010KASHAF ELECT 10M 50 M R HA F C1010 CS-\$5101KASHAF BC COM COLUM 16V M A Y C323 CS-\$5101KASHAF BC COM COLUM 16V M A Y C323 CS-\$5101KASHAF BC COM COLUM 16V M A Y C323 CS-\$5101KASHAF BC COM COLUM 16V M A Y C323 CS-\$5101KASHAF BC COM COLUM 16V M A Y C323 CS-\$5101KASHAF BC COM COLUM 16V M A Y C325 CS-\$5101KASHAF BC COM COLUM 16V M A Y C325 CS-\$5101KASHAF BC COM COLUM 16V M A Y C325 CS-\$5101KASHAF BC CS-\$510KASHAF BC CS-\$5101KASHAF BC CS-\$5101KASH	1 1					
C1010 C9-15-10.18/APSG DC GRAMAC 130PF 50V & A YB C322 C9-50-17-8/MRHAF ELECT 10MF 50V M R HA F C1112 C9-50-18/DMACHG BC CON 0.01MF 16V M A Y C323 C9-50-17-8/MRHAF ELECT 10MF 50V M R HA F C112 C9-50-18/DMACHG CRAMAC 15PF 50V M A CY C324 CN10.1012.28.1+F P CON 1.000/F1.000 JMF 50V Z R YF C325 C9-50-17-8/MRHAF ELECT 1.000 JMF 50V Z				<b>   </b>		
C111				<b>   </b>	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C113	C110	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C323	CE+50474MRHAF	ELECT 0.47MF 50V M R HA F
C113	C111			<b>   </b>		
C115 CC+510103ZRYFF   CERAMIC QD1MF 50V Z R VF   C353   CC+251010MPHAF   ELECT 17MF 25V M R HA F   C117 CC+51010JALOG   CERAMIC QPF 50V J A CH   C355   CC+501010MPHAF   ELECT 1MF 50V M R HA F   C118   CP+51010JASIG   CERAMIC QPF 50V J A CH   C355   CC+501010MPHAF   ELECT 1MF 50V M R HA F   C119   CC+501010JASIG   CERAMIC QPF 50V J A CH   C355   CC+501010MPHAF   ELECT 1MF 50V M R HA F   C119   CC+501010JASIG   CERAMIC QPF 50V J A CH   C401   CC+50100JASIG   CERAMIC QPF 50V M Z R VF   C112   CC+50100JASIG   CERAMIC QPF 50V M Z R VF   C122   CC+5010JASIG   CERAMIC QPF 50V M A S L   C404   CC+5010JZKAYBG   CCC-5010JXASIG   CERAMIC QPF 50V M A S L   C405   CC+5010JZKAYBG   CCC-5010JZKAYBG   CCC-5010JZKAYBG   CERAMIC QPF 50V M A Y R   C406   CC+5010JZKAYBG   CERAMIC QPF 50V M A Y R   C406   CC+5010JZKAYBG   CERAMIC QPF 50V M A Y R   C407   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C411   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415   CC+5010JZKAYBG   CERAMIC QPF 50V J A S L   C415			· · · · · · · · · · · · · · · · · · ·	<b>   </b>		
C115	l I			<b>   </b>		
C115 CC+501031AMCHG GCRAMIC DEP SOV JA G H C118 CC+501031AMCHG GCRAMIC DEP SOV JA G H C119 CC+501031AMCHG GCRAMIC DIP SOV JA G H C120 CC+50103AMCHG GCRAMIC DIM F50V K A YB C120 CC+50103AMCHG GCRAMIC DIM F50V K A YB C121 CC+50103AMCHG GCRAMIC DIM F50V K A YB C122 CC+50103MCHG GCRAMIC DIM F50V K A YB C123 CC+50103MCHG GCRAMIC DIM F50V K A YB C124 CC+50103MCHG GCRAMIC DIM F50V K A YB C125 CC+50103MCHG GCRAMIC DIM F50V K A YB C126 CC+50103MCHG GCRAMIC DIM F50V K A YB C127 CC+50103MCHG GCRAMIC DIM F50V K A YB C128 CC+50103MCHG GCRAMIC DIM F50V K A YB C129 CC+50103MCHG GCRAMIC DIM F50V K R YB C129 CC+50103MCHG GCRAMI	l I					
C115 C6+50103ACHG C74-5010M F16V M A Y C101 C6+16103MA-YG C75-5010XAYSG C74-5010XAYSG				<b>   </b>		
C119	l I			<b>   </b>		l I
C129 CC+50102KAYBG CERAMIC OODIMF 50V K A YB C402 CC+50101LKAYBG CERAMIC OODIMF 50V K A YB C402 CC+50101AAYBG CERAMIC 100PF 50V J A SL C404 CC+50101LKAYBG CERAMIC 100PF 50V J A SL C405 CC+50101AAYBG CERAMIC 100PF 50V J A SL C405 CC+50101MASLG CRAMIC 10PF 50V J A SL C405 CC+50101MASLG CRAMIC 10PF 50V M A Y C405 CC+50101MASLG CRAMIC 10PF 50V M A SL C406 CC+50101MASLG CRAMIC 10PF 50V M A SL C406 CC+50101MASLG CRAMIC 10PF 50V M A SL C406 CC+50101MASLG CRAMIC 10PF 50V M A Y C407 CC+50101MASLG CRAMIC 10PF 50V M A Y C408 CC+50101MASLG CRAMIC 10PF 50V M A Y C409 CC+50101MASLG CRAMIC 10PF 50V M A Y C409 CC+50101MASLG CRAMIC 10PF 50V M A Y C409 CC+50101MASLG CRAMIC 10PF 50V M R Y C409 CC+50101MASLG CRAMIC 10PF 50V M R Y C410 CC+50101MASLG CRAMIC 10PF 50V M A Y C411 CC+50101MASLG CRAMIC 10PF 50V M A Y C411 CC+50101MASLG CRAMIC 10PF 50V M A Y C411 CC+50101MASLG CRAMIC 10PF 50V M A Y C413 CC+50101MASLG CRAMIC 10PF 50V M A Y C413 CC+50101MASLG CRAMIC 10PF 50V M A Y C414 CC+50101MASLG CRAMIC 10PF 50V M A Y C415 CC+50101M	C118			C401	CA+16154MV++S	AL ELECT 0.15MF 16V M V
C122	C119	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB	C402	9	1
C122			1	<b>   </b>	1	
C123						i l
C125			1			1
C125						
C125	1 .			ŧ		I *
CC+501032RYFF C128 CC+50220JASLG CERAMIC SDF 50V J A SL C129 C6H16103ML+YG BC CON 0.01MF 16V M L + Y C130 CC+50102JASLG CERAMIC SBF 50V J A CH CC+50102JASUG C151 C6H25223MRXFF BC CON 0.02MF 25V M R XR C153 CCH50102KAYBG C154 CCH50102KAYBG C155 CCH50102KAYBG C154 CCH50102KAYBG C155 CCH50102KAYBG C156 CCH50102KAYBG C157 CCH50102KAYBG CCH5010XAYBG CCH50102KAYBG CCH5010XAYBG CCH5010X	1 :	-		3		
C130 C6+5010013AG C6RAMIC 10P5 50V JA SL C151 C6+5010013AG C6RAMIC 10P5 50V JA SL C151 C6+5010013AG C6RAMIC 10P5 50V JA SL C153 C6+50102RXPR C154 C7100561JR+F C154 C7100561JR+F C155 C7100561JR+F C155 C7100561JR+F C156 C8+25223MXRR C156 C8+25223MXRR C156 C8+25223MXRR C157 C6+50201AG C2PF 50V JA SL C158 C6+50201AG C2PF 50V JA SL C158 C6+50201AG C2PF 50V JA SL C158 C6+50201AG C2PF 50V JA SL C159 C6+25223MXRR C160 C6+50102RUF C150 C6+50103RYF C6RAMIC 001MF 50V Z R YF R100 C6+50103RUF C200 C6+50103RYF C6RAMIC 001MF 50V Z R YF R105 AU C150 C6+50103RWF C150 C6+50103RW	1 .			C410	CC+50180JACHG	CERAMIC 18PF 50V J A CH
C151		CC+50220JASLG	CERAMIC 22PF 50V J A SL	5		· ·
C151			·	1		
CC550 1 0 2 KRYBF   CRAMIC 0.001 MF 50 V K YB   CA15	I					
C154	I					
CA17   CA18   CA19	I					
C156	I					
C158 CC+5022JASLG CERAMIC 22PF 50V JA SL C49 CB+16103MA+YG BC CON 0.01MF 16V M A Y C159 CB+2522MRXRF BC CON 0.022MF 25V M R XR R101 401 019 1961 CARBON 3.9K JA 1/4W C160 CC+50163DTAFF CERAMIC 82PF 50V J R UJ N750 C161 CC+50680JRCHF CERAMIC 82PF 50V J R UJ N750 C201 CC+50103ZRYFF CERAMIC 0.01MF 50V Z R YF R104 401 024 7745 CARBON 10K JA 1/6W C203 CC+50103ZRYFF CERAMIC 0.01MF 50V Z R YF R105 401 015 1668 CARBON 180 JA 1/6W C203 CC+5023ZRYFF CERAMIC 0.022 50V Z R YF R106 401 024 7450 CARBON 180 JA 1/6W C205 CC+5023ZRYFF CERAMIC 0.022 50V Z R YF R106 401 027 2640 CARBON 180 JA 1/6W C205 CC+5023ZRYFF CERAMIC 0.022 50V Z R YF R107 401 027 2640 CARBON 180 JA 1/6W C205 CC+5023ZRYFF CERAMIC 0.022 50V Z R YF R108 401 027 2640 CARBON 180 JA 1/6W C206 CC+50103RHAF ELECT 1MF 50V M R HA F R110 401 025 1645 CARBON 15K JA 1/6W C208 CE+10107MRHAF ELECT 10MF 10V M R HA F R110 401 025 1645 CARBON 15K JA 1/6W C209 CC+50101KAYBG CERAMIC 100PF 50V K A YB R111 401 025 3847 CARBON 180 JA 1/6W C210 CC+5043JJMSHYB CCRAMIC 100PF 50V K A YB R112 401 027 8542 CARBON 180 JA 1/6W C211 CB+16103MA+YG BC CON 0.047MF 25V M R XR R115 401 025 3847 CARBON 180 JA 1/6W C212 CB+26473MRXFF BC CON 0.047MF 25V M R XR R116 401 025 3847 CARBON 180 JA 1/6W C213 CC+25106MRHAF ELECT 10MF 20V M R HA F R116 401 025 3847 CARBON 180 JA 1/6W C214 CC+50223ZRYFF CERAMIC 0.025 50V Z R YF R117 401 025 7845 CARBON 180 JA 1/6W C216 CC+25473MRXFF BC CON 0.047MF 25V M R XR R115 401 025 3847 CARBON 180 JA 1/6W C216 CC+25473MRXFF BC CON 0.024MF 25V M R XR R116 401 025 3847 CARBON 180 JA 1/6W C217 CC+25475MRHAF ELECT 10MF 25V M R XR R115 401 025 3847 CARBON 180 JA 1/6W C216 CC+25475MRHAF ELECT 10MF 25V M R XR R115 401 025 3847 CARBON 180 JA 1/6W C217 CC+25475MRHAF ELECT 10MF 25V M R XR R115 401 025 3847 CARBON 180 JA 1/6W C219 CB+25473MRXFF BC CON 0.024MF 25V M R XR R115 401 025 3845 CARBON 180 JA 1/6W C219 CB+25473MRXFF BC CON 0.024MF 25V M R XR R115 401 024 7747 CARBON 100K JA 1/6W C219 CB+25473MRXFF BC CON 0.024MF 25V M R XR R115 401 024 7747 CARBON 130 JA 1/6W C219 CB+25	I					·
C159 CB-25223MRXBF BC CON .0.022MF 25V M R XR C161 CC+50120JRUJF CERAMIC .12PF 50V J R UJ N750 R102 401 024 7450 CARBON .30K JA 1/4W C201 CC+50103ZRYFF CERAMIC .0.01MF 50V Z R YF R104 401 .026 3747 CARBON .10K JA 1/6W C202 CC+50103ZRYFF CERAMIC .0.022 50V Z R YF R105 401 .015 1668 CARBON .10K JA 1/6W C203 CC+5023ZRYFF CERAMIC .0.022 50V Z R YF R106 401 .024 7450 CARBON .10K JA 1/6W C205 CC+50223ZRYFF CERAMIC .0.022 50V Z R YF R106 401 .027 2640 CARBON .10K JA 1/6W C206 CC+50223ZRYFF CERAMIC .0.022 50V Z R YF R107 401 .027 2640 CARBON .10K JA 1/6W C207 CB+25223MRXBF BC CON .0.022MF 25V M R XR R109 401 .025 1845 CARBON .15K JA 1/6W C209 CC+50101MRYBG CON .0.02MF 25V M R XR R110 401 .025 1845 CARBON .15K JA 1/6W C211 CB+16103MA+VG ELECT .10MF .10V M R HA F R111 401 .027 8642 CARBON .15K JA 1/6W C212 CB+25473MRXBF BC CON .0.02MF .50V J R SL S BC C114 CC+5023ZRYFF BC CCAMIC .0.025 50V Z R YF R112 401 .027 8642 CARBON .15K JA 1/6W C212 CB+25473MRXBF BC CON .0.02MF .50V M R XR R115 401 .025 3847 CARBON .15K JA 1/6W C212 CB+25475MRXBF BC CON .0.01MF .16V M A Y R114 401 .026 .1040 CARBON .2K JA 1/6W C214 CC+5023ZRYFF BC CERAMIC .2052 50V Z R YF R117 401 .025 .3847 CARBON .15K JA 1/6W C216 CE+25475MRHAF ELECT .10MF .25V M R XR R115 401 .025 .3847 CARBON .15K JA 1/6W C216 CE+25475MRHAF ELECT .10MF .25V M R HA F R116 401 .025 .3847 CARBON .2K JA 1/6W C216 CE+25475MRHAF ELECT .47MF .25V M R HA F R116 401 .025 .3847 CARBON .20 JA 1/6W C217 CE+2523MRXBF BC CON .0.02MF .25V M R XR R112 401 .024 .7450 CARBON .10K JA 1/6W C221 CE+25106MRHAF ELECT .47MF .25V M R HA F R116 401 .024 .7450 CARBON .10K JA 1/6W C221 CE+25106MRHAF ELECT .47MF .25V M R HA F R116 401 .024 .7450 CARBON .10K JA 1/6W C221 CE+25106MRHAF ELECT .47MF .25V M R HA F R116 401 .024 .7450 CARBON .10K JA 1/6W C222 CE+25106MRHAF ELECT .47MF .55V M R HA F R116 401 .024 .7450 CARBON .10K JA 1/6W C222 CE+25106MRHAF ELECT .47MF .25V M R HA F R150 401 .024 .7450 CARBON .10K JA 1/6W C222 CE+25106MRHAF ELECT .47MF .55V M R HA F R150 401 .024 .7450 CARBON .10K JA 1/6W C222 C			CERAMIC 22PF 50V J A SL	C419	CB+16103MA+YG	BC CON 0.01MF 16V M A Y
C161						l
C151	I					
C201	I					
C202						
C203						
C204						
C206	1					1
C207         CB+25223MRXRF         BC CON 0.022MF 25V M R XR         R110         401 025 3847         CARBON 180 JA 1/6W           C208         CE+10107MRHAF         ELECT 100MF 10V M R HA F         R111         401 027 8642         CARBON 180 JA 1/6W           C210         CC+50431JRSLF         CERAMIC 430PF 50V J R SL S         R113         401 027 8642         CARBON 8.2K JA 1/6W           C211         CB+16103MA+YG         BC CON 0.047MF 25V M R XR         R114         401 025 1942         CARBON 180 JA 1/6W           C212         CB+25473MRXFR         BC CON 0.047MF 25V M R XR         R114         401 025 3847         CARBON 180 JA 1/6W           C213         CE+25106MRHAF         BC CON 0.047MF 25V M R XR         R115         401 025 3847         CARBON 180 JA 1/6W           C214         CC+50223ZRYFF         CERAMIC 0.022 50V Z R YF         R117         401 025 3847         CARBON 180 JA 1/6W           C216         CE+25475MRHAF         ELECT 4.7MF 25V M R HA F         R116         401 025 7845         CARBON 180 JA 1/6W           C217         CE+25475MRHAF         ELECT 4.7MF 25V M R HA F         R119         401 024 7747         CARBON 100K JA 1/6W           C218         CB+25223MRXFF         BC CON 0.022MF 25V M R XR         R121         401 024 7450         CARBON 100K JA 1/6W	C205	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF	R108		CARBON 15K JA 1/6W
C208         CE+10107MRHAF         ELECT 100MF 10V M R HA F         R111         401 024 7450         CARBON 10K JA 1/6W           C209         CC+50101KAYBG         CCRAMIC 100PF 50V J R SL S         R112         401 027 8642         CARBON 82K JA 1/6W           C210         CB+16103MA+YG         CERAMIC 400PF 50V J R SL S         R113         401 025 1942         CARBON 15K JA 1/6W           C211         CB+16103MA+YG         BC CON 0.01MF 16V M A Y         R114         401 025 1942         CARBON 15K JA 1/6W           C212         CB+25473MRXFF         BC CON 0.047MF 25V M R XR         R115         401 025 3847         CARBON 180 JA 1/6W           C213         CE+25106MRHAF         ELECT 10MF 25V M R HA F         R116         401 025 3847         CARBON 180 JA 1/6W           C214         CC+50223ZRYFF         CERAMIC 0.022 50V Z R YF         R117         401 025 7845         CARBON 180 JA 1/6W           C215         CE+25475MRHAF         ELECT 4.7MF 25V M R HA F         R118         401 025 7845         CARBON 180 JA 1/6W           C216         CE+25475MRHAF         ELECT 4.7MF 25V M R HA F         R119         401 024 7747         CARBON 180 JA 1/6W           C218         CB+25223MRXFF         BC CON 0.022MF 25V M R XR         R122         401 024 7450         CARBON 180 JA 1/6W <td< td=""><td></td><td></td><td></td><td><b>I</b></td><td></td><td></td></td<>				<b>I</b>		
C209						I
C210				<b>I</b>		1
C211					1	
C212			[ ·	<b>I</b>		
C213			1		1	CARBON 180 JA 1/6W
C215		CE+25106MRHAF	ELECT 10MF 25V M R HA F	R116	401 025 3847	
C216	C214	CC+50223ZRYFF		1		1
C217			· ·	i .		1
C218	1 '			1		
C219		1				
C220			l I	1		CARRON 101/ IA 1/CM
C221			l I	1	1	l
C222						CARRON 22K IA 1/GW
C301	C222	CB+25223MRXRF	l I	1	1	CARBON 100K JA 1/6W
C302	1			1	1	I I
C303			l I	1	1	
C304				T .		0.0000110011111111111111111111111111111
C305						l
C306			l I		1	ONREDOR S.S.C S/C 1/ON
C307					1	
C308   CB+25222KRXRF   BC CON 0.0022MF 25V K R XR   R168   401 015 1668   CARBON 180 JA 1/4W						
R169   401 024 8041   CARBON 1M JA 1/6W	C308	CB+25222KRXRF	BC CON 0.0022MF 25V K R XR			l
				R169	401 024 8041	CARBON 1M JA 1/6W

Ref. No.	Par	t No.	Description
R201		027 8345	CARBON 820 JA 1/6W
R202		026 7042	CARBON 3.9K JA 1/6W
R203	1	026 3945	CARBON 330 JA 1/6W
R204	1	026 3945	CARBON 330 JA 1/6W
R205	401	024 7450	CARBON 10K JA 1/6W
R206 R207	1	026 4645 015 1668	CARBON 33K JA 1/6W CARBON 180 JA 1/4W
R207		024 9048	CARBON 120 JA 1/6W
R210		025 8248	CARBON 120 JA 1/6W
R211	401		CARBON 33K JA 1/6W
R212 .	401		CARBON 10K JA 1/6W
R213	401	024 7450	CARBON 10K JA 1/6W
R214	401	026 3945	CARBON 330 JA 1/6W
R216	401	024 7747	CARBON 100K JA 1/6W
R217	401		CARBON 3.3K JA 1/6W
R219		025 4646	CARBON 18K JA 1/6W
R220		024 7747	CARBON 100K JA 1/6W
R221	401		CARBON 560K JA 1/6W
R301 R302		026 3945	CARBON 330 JA 1/6W
R302		026 4645 026 9947	CARBON 33K JA 1/6W CARBON 4.7K JA 1/6W
R304		026 9947	CARBON 4.7K JA 1/6W
R305		024 9741	CARBON 4.7K JA 1/6W
R306		013 6467	CARBON 12K JA 1/4W
R307		024 9741	CARBON 12K JA 1/6W
R308		013 6467	CARBON 12K JA 1/4W
R309		025 7449	CARBON 220 JA 1/6W
R310		025 7449	CARBON 220 JA 1/6W
R311		027 6143	CARBON 680K JA 1/6W
R312		027 6143	CARBON 680K JA 1/6W
R313		016 3869	CARBON 2.2K JA 1/4W
R314 R315		016 3869 024 7747	CARBON 2.2K JA 1/4W CARBON 100K JA 1/6W
R316		024 7747	CARBON 100K JA 1/6W
R317		026 4348	CARBON 3.3K JA 1/6W
R318	401		CARBON 3.3K JA 1/4W
R321	l	24 7450	CARBON 10K JA 1/6W
R322	401 (	7450	CARBON 10K JA 1/6W
R323	1	7069	CARBON 10K JA 1/4W
R324		024 7044	CARBON 1K JA 1/6W
R325		022 3167	CARBON 6.8K JA 1/4W
R326		015 3860 024 7747	CARBON 18K JA 1/4W CARBON 100K JA 1/6W
R351 R352		024 7747 025 8248	CARBON 100K JA 1/6W CARBON 22K JA 1/6W
R353		025 8248	CARBON 22K JA 1/6W
R354		26 4645	CARBON 33K JA 1/6W
R355		26 3945	CARBON 330 JA 1/6W
R356	401 (	26 4645	CARBON 33K JA 1/6W
R357	401 (	21 3069	CARBON 5.6K JA 1/4W
R358	401 (	026 4348	CARBON 3.3K JA 1/6W
R359		012 8165	CARBON 100K JA 1/4W
R360	401 (	26 4645	CARBON 33K JA 1/6W
R361		25 1942	CARBON 15K JA 1/6W
R362		26 3945	CARBON 330 JA 1/6W
R363		)12 7069 )24 7044	CARBON 10K JA 1/4W
R364 R365		024 7044 015 1668	CARBON 1K JA 1/6W CARBON 180 JA 1/4W
R366		26 4645	CARBON 33K JA 1/6W
R367		25 1942	CARBON 15K JA 1/6W
R368		25 1942	CARBON 15K JA 1/6W
R401		27 5542	CARBON 6.8K JA 1/6W
R402	401 (	25 1645	CARBON 1.5K JA 1/6W
R403		27 2343	CARBON 560 JA 1/6W
R404		25 1645	CARBON 1.5K JA 1/6W
R405		25 1942	CARBON 15K JA 1/6W
R406		14 5261	CARBON 15K JA 1/4W
R407		26 3945	CARBON 330 JA 1/6W
R408		27 5245	CARBON 680 JA 1/6W
R409 R410	401 ( 401 (	24 7450	CARBON 10K JA 1/6W
R410 R411	401 (		CARBON 10K JA 1/6W CARBON 10K JA 1/6W
		124 7450	CARBON 10K JA 1/6W
マチェン・			CARDON TOR SM 1/UW
R412 R413		124 7044	CARBON 1K JA 1/6W

Ref. No.	Part. No.	Description
R414	401 024 7044	CARBON 1K JA 1/6W
R415	401 024 7450	CARBON 10K JA 1/6W
R416	401 024 7450	CARBON 10K JA 1/6W
R417	401 024 7450	CARBON 10K JA 1/6W
R418	401 026 4348	CARBON 3.3K JA 1/6W
R419	401 024 7450	CARBON 10K JA 1/6W
R420	401 024 7450	CARBON 10K JA 1/6W
R422	401 026 4645	CARBON 33K JA 1/6W
R423	401 024 6740	CARBON 100 JA 1/6W
R424	401 018 4953	CARBON 33K JA 1/4W
R3101	401 025 7449	CARBON 220 JA 1/6W

## PRESET PCB ASSY

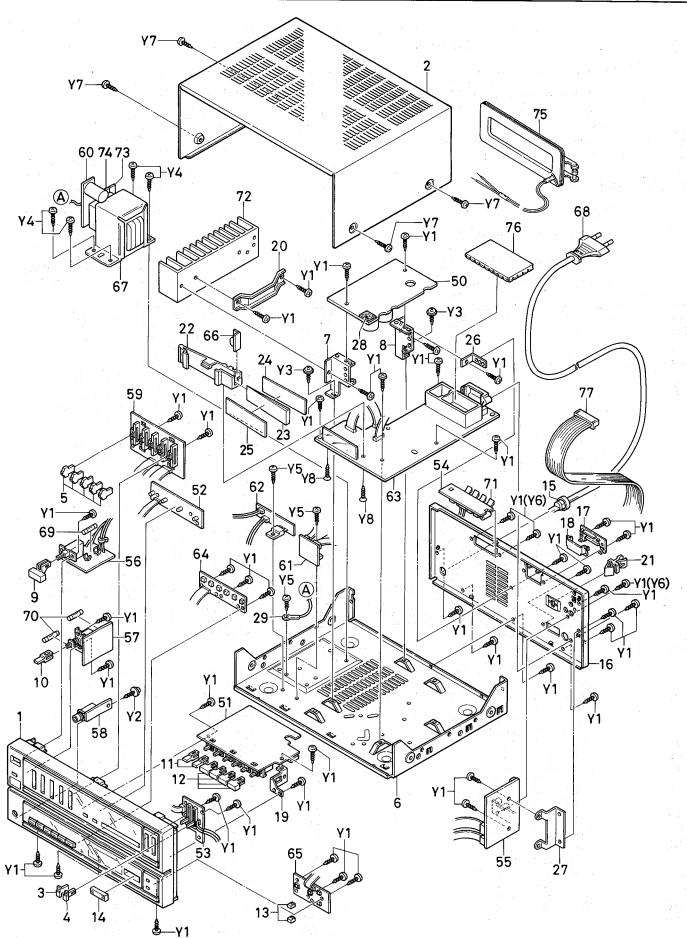
Ref. No.	Part No.	Description	
64	141-4-290T-07500	P.C BOARD ASSY,	
	4.4.1	PRESET (W.GERMANY/EUROPE)	
	141-4-290T-07501	P.C BOARD ASSY,	
		PRESET (ITALY)	
	4-267T-17176	SOCKET, 6P	
S401	4-238T-84673	SWITCH, CH1	
S402	4-238T-84673	SWITCH, CH2	
S403	4-238T-84673	SWITCH, CH3	
S404	4-238T-84673	SWITCH, CH4	
S405	4-238T-84673	SWITCH, CH5	
\$406	4-238T-84673	SWITCH, CH6	

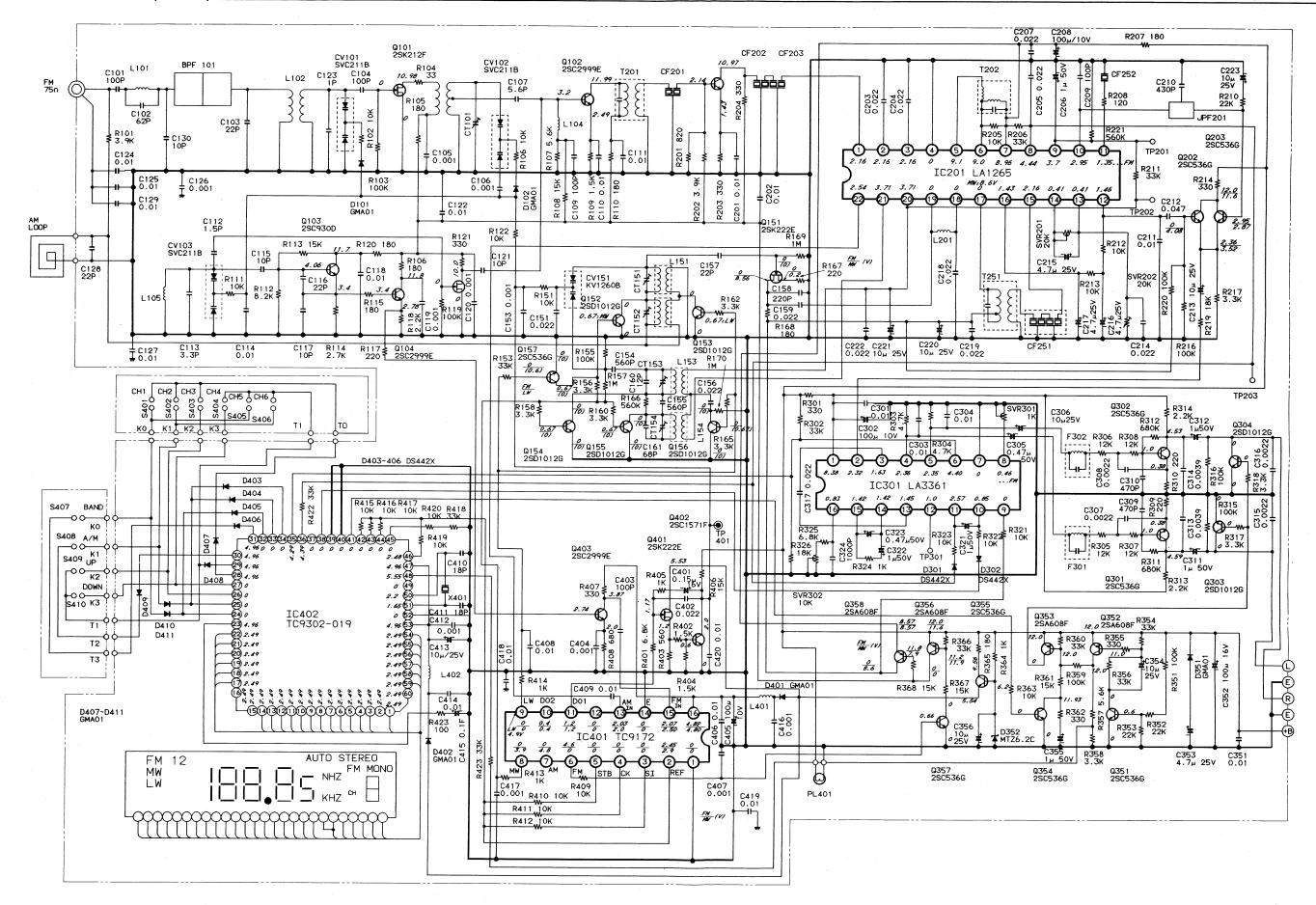
## BAND SELECT SWITCH PCB ASSY

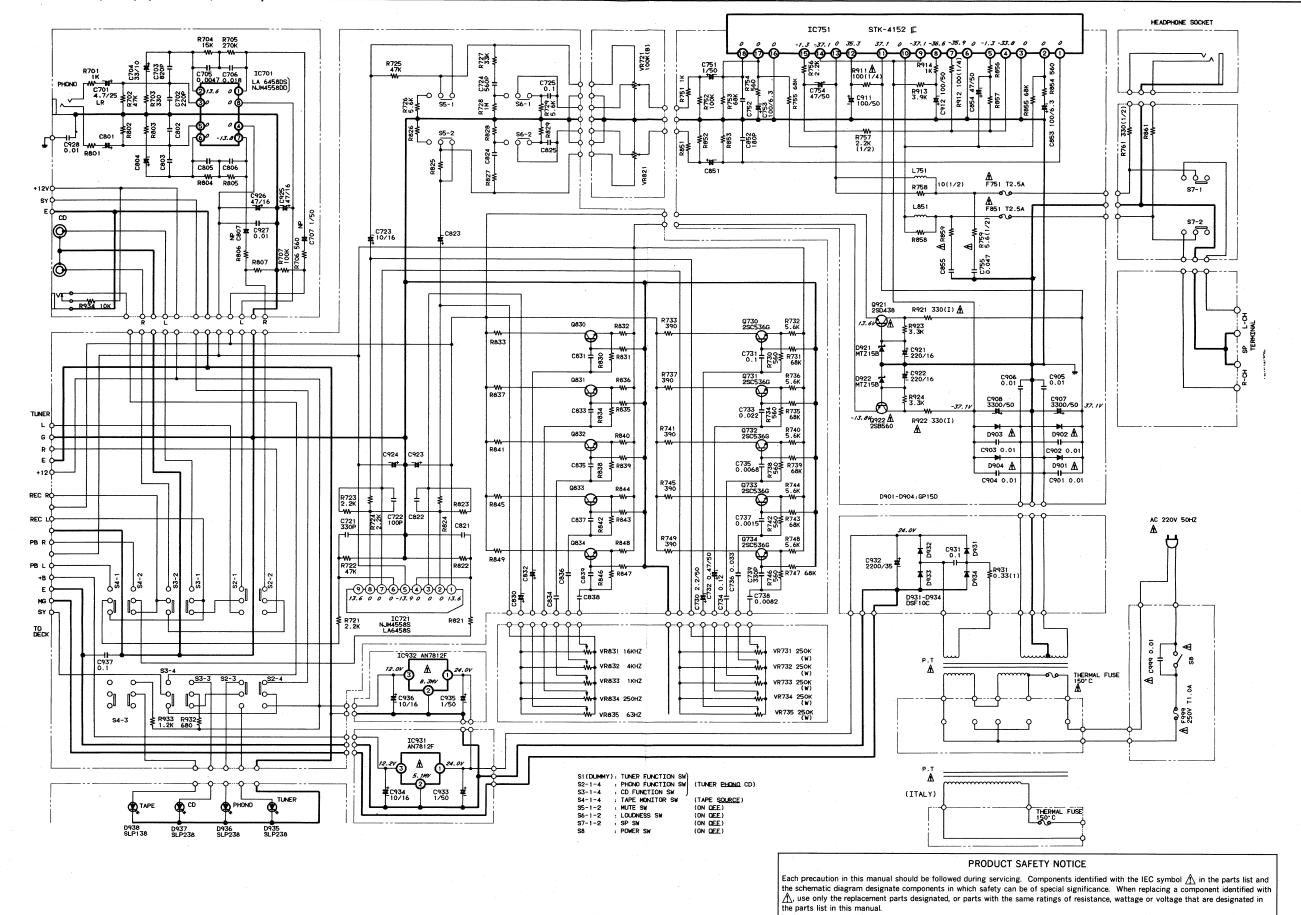
Ref. No.	Part No.	Description	
65	141-4-290T-07600	P.C BOARD ASSY, BAND SELECT SWITCH (W.GERMANY/EUROPE)	
	141-4-290T-07601	P.C BOARD ASSY,	
	4-267T-17177	BAND SELECT SWITCH (ITALY) SOCKET, 7P	
S407	4-238T-84673	SWITCH, BAND	
S408	4-238T-84673	SWITCH, AM/FM	
S409	4-238T-84673	SWITCH, UP	
S410	4-238T-84673	SWITCH, DOWN	
		No. of the control of	12.00

## LAMP PCB ASSY

Ref. No.	Part No.		31
66	141-4-290T-07700 141-4-290T-07701	P.C BOARD ASSY, LAMP (W.GERMANY/EUROPE) P.C BOARD ASSY, LAMP (ITALY)	
PL401	141-2-329T-09300 4-612T-17400	REFLECTOR LAMP	







Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply

circuit before returning the product to the customer

